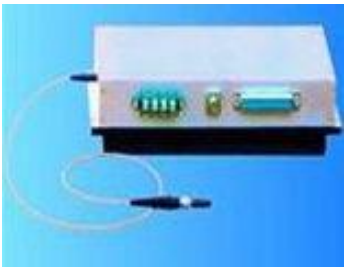
T80H-P3 Series
808nm Fiber Coupled Laser Diodes, 14W-25W, MM Fiber, Multimode Beam



Overview

The Lasermate T80H-P3 series is an 808nm wavelength, fiber coupled laser diode module offering up to 25W output power through a 700um fiber. The laser is designed for use in laser pumping, medical usage, printing, heating, material processing, and marking applications.

Features

- 808nm laser diode
- Uncooled fiber-coupled CW module
- Multimode fiber output with ST/SMA connectors
- Optical output power 14W to 25W

Applications

- Laser pumping
- Medical usage
- Printing
- Heating
- Material processing
- Marking

Product Overview

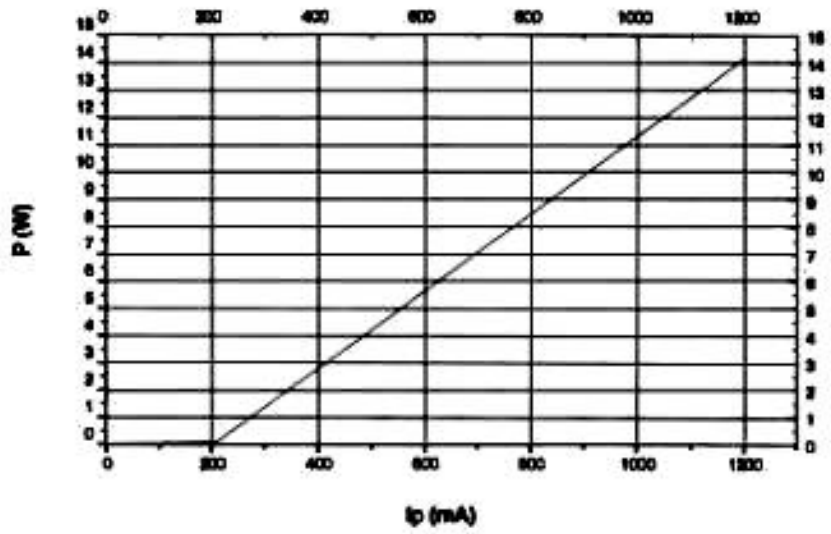
The following table lists the available part numbers, as well as the wavelength, output power, operating current, fiber core size, and connector of each of the part numbers.

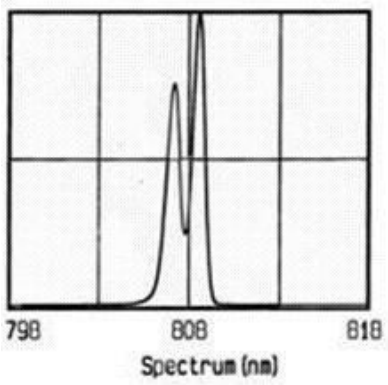
Part Number	Wavelength	Output Power	Operating Current	Fiber Core Size	Connector
T80H-P3-ST14W	808nm	14W	1200mA	700um	ST
T80H-P3-SMA14W	808nm	14W	1200mA	700um	SMA905
T80H-P3-ST25W	808nm	25W	2500mA	700um	ST
T80H-P3-SMA25W	808nm	25W	2500mA	700um	SMA905

Specifications (25°C)

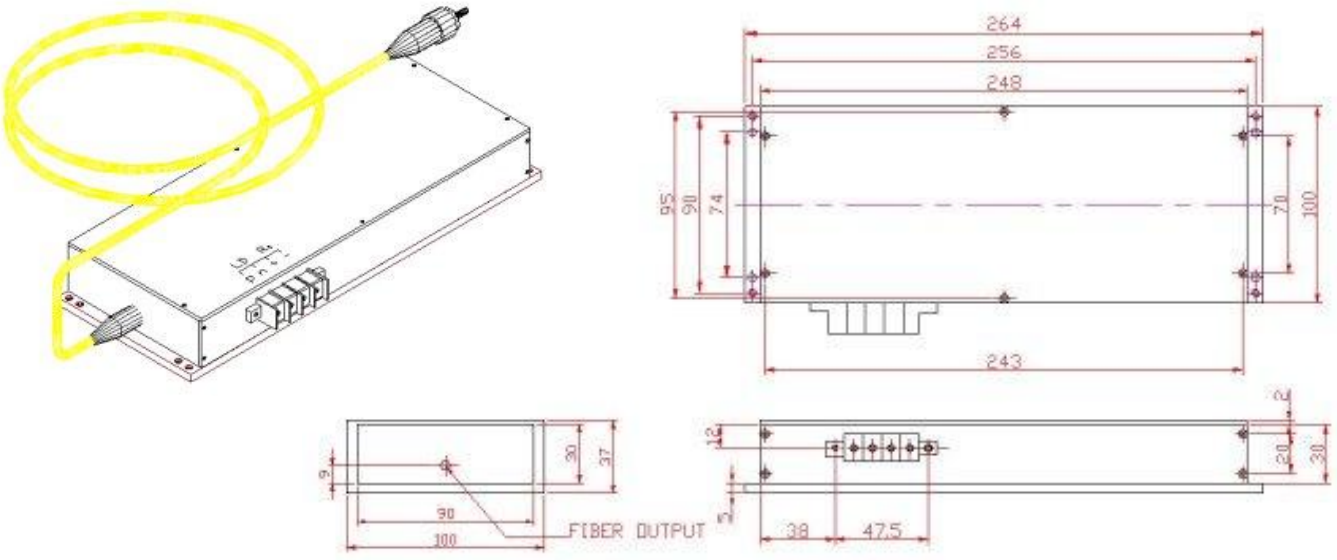
Optical Specifications		
CW Output Power from Fiber	14W	25W
Central Wavelength	800 - 820nm	
Spectral Width	<7nm	
Wavelength Temperature Coefficient	0.3nm/°C	
Fiber Characteristics		
Fiber Core Size	700µm	
N.A.	0.22	
Fiber Length	1m	
Connector	ST, SMA905	
Electrical Characteristics		
Slope Efficiency	>14W/A	>12W/A
Threshold Current	250mA	500mA
Operating Current	1200mA	2500mA
Operating Voltage	<35V	
Series Resistance	<3.5Ω	

Typical Characteristics





Mechanical Outline (unit: mm)



Additional Notes

- The laser diodes are designated solely as OEM components for incorporation into the customer's end products. Therefore, it is the customer's responsibility to comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to FDA Performance Standards for Light-Emitting Products for detailed information.
- Specifications are subject to change without notice.